

## SPECIFICATION

Atty Dkt: F-9191

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### ABSTRACT

The invention relates to a method for grinding the bearing points and assembled cams of camshafts and for levelling them with the aid of a grinding machine and to a device for carrying out said method, in particular making it possible to carry out a levelling process by means of a levelling device on the same grinding machine after grinding. In particular, when the bearing points are finish-ground with the use of backrests as supports, said supports are first removed from the engagement with the respective bearing points of the camshaft and the concentricity of the bearing points is measured, preferably in a middle area. After determining the concentricity in the middle area, the levelling process is carried out on the grinding machine on the basis of the measured concentricity. The inventive device is also provided with a levelling device integrated into the grinding machine.